



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/994,831	12/19/1997	ILEANA A. LEUCA	CASE13-8	7103
30083	7590	02/07/2006	EXAMINER	
PERKINS COIE LLP/AWS P.O. BOX 1247 SEATTLE, WA 98111-1247			JAGANNATHAN, MELANIE	
			ART UNIT	PAPER NUMBER
			2666	

DATE MAILED: 02/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

08/994,831

Applicant(s)

LEUCA ET AL.

Examiner

Melanie Jagannathan

Art Unit

2666

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 November 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-5, 7, 8, 13-18, 20-25 and 27-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 2-5, 7, 8, 13-18, 20-25 and 27-31 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

- Examiner has considered Amendment after Non-Final filed 11/10/2005.
- Claims 2-5, 7, 8, 13-18, 20-25, 27-31 are currently pending.

Claim Objections

1. Claims 7-8 are objected to because of the following informalities: claims 7-8 depend from cancelled claim 1. Examiner assumes claims depend from independent claim 2.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 2-5, 7-8, 13-14, 22-25, 27-28 are rejected under 35 U.S.C. 102(e) as being anticipated by Csapo US 5,910,946.

Regarding claims 2, 22, 25, the claimed system for managing routing of information from source to destination through a plurality of networks, with at least one of the networks is a packet network is disclosed by Csapo by routing of telephone calls with devices coupled to PSTN (Figure 3, element 32) and performing Internet calls with devices coupled to communication network (element 31). See column 3, lines 17-23. The claimed comprising routing processor for receiving a query signal from source via a wireless link is disclosed by Csapo by mobile subscriber initiates call by dialing a destination number which is captured by internet base station (Figure 5, step 501). See column 4, lines 11-13. The claimed query specifies the destination to which information will be routed and processor is configured to identify a subscriber service associated with destination is disclosed by Csapo by control unit of base station accesses home location register to request identification of called party number (step 502) and if information can be found in HLR, the called party is reachable via Internet connection (step 508). See column 4, lines 14-18, lines 31-34. The claimed memory for storing one or more characteristics of destination is disclosed by Csapo by base station utilizing a home location register to request identification of called party number.

The claimed processor determines route for transmission of information based on query signal, based on identified subscriber service associated with destination and based on characteristics in memory, wherein one of the one or more characteristics of destination includes information relating to equipment at destination and processor or network element other than source packetizes information sent over route is disclosed

by Csapo by base station retrieving information on called party number from HLR, determines internet based voice call as subscriber service is possible and base station transmits packetized compressed speech to called party's address (step 510). See column 4, lines 31-39.

The claimed destination being one of at least two possible destinations, and wherein the memory stores information associated with at least one of two different types of equipment at destination is disclosed by Csapo by routing of telephone calls with devices coupled to PSTN (Figure 3, element 32) and performing Internet calls with devices coupled to communication network (element 31). See column 3, lines 17-23. The control unit of base station accesses home location register to request identification of called party number (step 502) and if information can be found in HLR, the called party is reachable via Internet connection (step 508). See column 4, lines 14-18, lines 31-34.

Regarding claims 3-4, 23-24, the claimed source subscribes to fixed wireless service network is disclosed Csapo by user can be mobile subscriber (Figure 3, element 30).

Regarding claim 5, the claimed destination subscribes to PSTN network is disclosed by Csapo by possibility of mobile-to-land line equipment directed call. See column 4, lines 18-30.

Regarding claims 7-8, 27-28, the claimed digitized voice and DTMF signal is disclosed by Csapo by compression of speech from PCM to packet form. See 3, lines 47-67, column 4, lines 1-7.

Regarding claims 13-14, the claimed method for managing routing of information from source to destination through a plurality of networks, with at least one of the networks is a packet network and wherein each network is linked to at least one other network by a communication medium is disclosed by Csapo by voice communication via interconnection of PSTN, Internet for telephones and mobile subscribers (Figure 3). The claimed receiving a query specifying the destination to which information will be routed and processor is configured to identify a subscriber service associated with destination is disclosed by Csapo by mobile subscriber initiates call by dialing a destination number which is captured by internet base station (Figure 5, step 501). See column 4, lines 11-13. The control unit of base station accesses home location register to request identification of called party number (step 502) and if information can be found in HLR, the called party is reachable via Internet connection (step 508). See column 4, lines 14-18, lines 31-34. The claimed memory for storing one or more characteristics of destination indicating at least one of two types of equipment at destination is disclosed by Csapo by base station utilizing a home location register to request identification of called party number.

The claimed destination is one of at least two possible destinations, and wherein at least one of two different types of equipment are each associated with a possible destination is disclosed by Csapo by routing of telephone calls with devices coupled to PSTN (Figure 3, element 32) and performing Internet calls with devices coupled to communication network (element 31). See column 3, lines 17-23. The control unit of base station accesses home location register to request identification of called party

number (step 502) and if information can be found in HLR, the called party is reachable via Internet connection (step 508). See column 4, lines 14-18, lines 31-34.

The claimed determining route for transmission of information based on query signal, based on identified subscriber service associated with destination and based on characteristics in memory, wherein one of the one or more characteristics of destination includes information relating to equipment at destination and processor or network element other than source packetizes information sent over route is disclosed by Csapo by base station retrieving information on called party number from HLR, determines internet based voice call as subscriber service is possible and base station transmits packetized compressed speech to called party's address (step 510). See column 4, lines 31-39.

4. Claims 15-18, 20, 21, 29-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Csapo in view of Maroulis et al. US 6,584,094.

Regarding claims 15-18, the claimed method for managing routing of information from source to destination through a plurality of networks, with at least one of the networks is a packet network and wherein each network is linked to at least one other network by a communication medium is disclosed by Csapo by voice communication via interconnection of PSTN, Internet for telephones and mobile subscribers (Figure 3). The claimed query specifies the destination to which information will be routed and processor is configured to identify a subscriber service associated with destination is disclosed by Csapo by mobile subscriber initiates call by dialing a destination number

which is captured by internet base station (Figure 5, step 501). See column 4, lines 11-13. The control unit of base station accesses home location register to request identification of called party number (step 502) and if information can be found in HLR, the called party is reachable via Internet connection (step 508). See column 4, lines 14-18, lines 31-34. The claimed memory for storing one or more characteristics of destination is disclosed by Csapo by base station utilizing a home location register to request identification of called party number.

The claimed destination is one of at least two possible destinations, and wherein at least one of two different types of equipment are each associated with a possible destination is disclosed by Csapo by routing of telephone calls with devices coupled to PSTN (Figure 3, element 32) and performing Internet calls with devices coupled to communication network (element 31). See column 3, lines 17-23. The control unit of base station accesses home location register to request identification of called party number (step 502) and if information can be found in HLR, the called party is reachable via Internet connection (step 508). See column 4, lines 14-39.

The claimed determining route for transmission of information based on query signal, based on identified subscriber service associated with destination and based on characteristics in memory, wherein one of the one or more characteristics of destination includes information relating to equipment at destination and processor or network element other than source packetizes information sent over route is disclosed by Csapo by base station retrieving information on called party number from HLR, determines internet based voice call as subscriber service is possible and base station transmits

packetized compressed speech to called party's address (step 510). See column 4, lines 31-39.

Although, Csapo does disclose a destination that is a landline phone connected to PSTN and an Internet with Internet gateway. Csapo does not disclose if destination subscribes to a service associated with a wired information transfer network and the equipment at the destination is not configured to accept information from the source via the wired network alone, the determined transmission path comprises at least one packet network in addition to the wired network and the source does not packetize the information sent over the determined transmission path.

Maroulis et al. discloses POTS telephones (Figure 1, elements 101, 107), gateways (elements 109, 111) and Internet (element 117) for providing voice communications path over Internet. See column 1, lines 54-67. At the time the invention was made it would have been obvious to a person of ordinary skill in the art to modify mobile to landline call disclosed in Csapo to be communication over the Internet as in Maroulis. One of ordinary skill in the art would be motivated to do so for cost efficiency since toll charges can be avoided. See column 3, lines 33-46.

Additionally, Csapo discloses the claimed equipment at destination comprising computer or modem by modems (Figure 1, elements 12) and computers (elements 11). However, Csapo does not disclose one of the equipment being a facsimile device as in claim 16. Maroulis et al. discloses telephonic communications over Internet where endpoints could be facsimile devices. See column 2, lines 45-67. At the time the invention was made it would have been obvious to a person of ordinary skill in the art to

Art Unit: 2666

have destination be a fax. One of ordinary skill in the art would be motivated to do this in order to have the ease of sending faxes to a destination.

Regarding claim 20, the claimed destination subscribes to a service associated with a wired information transfer network and the equipment at destination is configured to accept information from a source via the wired information transfer network alone, transmission path does not comprise a packet network in addition to wired information transfer network is disclosed by Csapo by determination whether called party is reachable by internet connection and if not i.e. a mobile to landline call, then call request goes to local exchange via an ISDN connection provided by local exchange carrier. See column 4, lines 14-30 and Figure 3 with connection through PSTN.

Regarding 29-31, the claimed method for managing routing of information from source to destination through a plurality of networks, with at least one of the networks is a packet network and wherein each network is linked to at least one other network by a communication medium is disclosed by Csapo by voice communication via interconnection of PSTN, Internet for telephones and mobile subscribers (Figure 3). The claimed query specifies the destination to which information will be routed and processor is configured to identify a subscriber service associated with destination is disclosed by Csapo by mobile subscriber initiates call by dialing a destination number which is captured by internet base station (Figure 5, step 501). See column 4, lines 11-13. The control unit of base station accesses home location register to request identification of called party number (step 502) and if information can be found in HLR, the called party is reachable via Internet connection (step 508). See column 4, lines 14-

18, lines 31-34. The claimed memory for storing one or more characteristics of destination is disclosed by Csapo by base station utilizing a home location register to request identification of called party number.

The claimed destination is one of at least two possible destinations, and wherein at least one of two different types of equipment are each associated with a possible destination is disclosed by Csapo by routing of telephone calls with devices coupled to PSTN (Figure 3, element 32) and performing Internet calls with devices coupled to communication network (element 31). See column 3, lines 17-23. The control unit of base station accesses home location register to request identification of called party number (step 502) and if information can be found in HLR, the called party is reachable via Internet connection (step 508). See column 4, lines 14-39.

The claimed if destination subscribes to a service associated with a wired information transfer network, determining route for transmission of information based on query signal and information indicating type of equipment at destination and different from information based on query is disclosed by Csapo by control unit of base station (Figure 4, element 47) accesses HLR using destination called party number (claimed information based on query) and a determination is made whether the called party is reachable by internet connection. If requested called party number is not found, HLR sends back the appropriate message to Internet base station (the claimed information indicating type of equipment, different from information based on query). The Internet considers the call request to be a mobile to landline call and call request goes to local

exchange via an ISDN connection provided by local exchange carrier. See column 4, lines 14-30 and Figure 3 with connection through PSTN.

Additionally, Csapo discloses the claimed equipment at destination comprising computer or modem by modems (Figure 1, elements 12) and computers (elements 11). However, Csapo does not disclose at least three different types of equipment associated with a possible destination and one of the equipment being a facsimile device as in claim 16. Maroulis et al. discloses telephonic communications over Internet where endpoints could be facsimile devices. See column 2, lines 45-67. At the time the invention was made it would have been obvious to a person of ordinary skill in the art to have destination be a fax. One of ordinary skill in the art would be motivated to do this in order to have the ease of sending faxes to a destination.

Response to Argument

5. Applicant's arguments filed 11/10/2005 have been considered but are moot in view of the new ground(s) of rejection. Examiner appreciates Applicant's detailed description of the prior art.

Regarding claim 2, Applicant argues on pages 11-12 of Remarks that reference Csapo does not teach or suggest the ability to determine a route based on more than one source of information such as information from query signal, based on an identified subscriber service and based on characteristics stored in memory because Csapo relies on one type of information from HLR.

Examiner respectfully disagrees and contends Csapo teaches claimed subject matter of claim 2. Csapo discloses mobile subscriber initiates call by dialing destination

Art Unit: 2666

number (claimed receiving query signal specifying destination). Csapo does disclose the ability to determine route based on more than one source of information such as information from query signal, based on an identified subscriber service and based on characteristics stored in memory. Using destination number (claimed information from query signal), control unit of base station accesses HLR (claimed characteristics stored in memory) to request identification of called party and if information is found in HLR, the called party is reachable via Internet (claimed identified subscriber service).

Additionally, regarding claims 13, 15, Applicant argues on page 12 of Remarks that Csapo does not disclose the claimed determining a route for the transmission of information based on query and based on one or more stored characteristics, wherein the one or more stored characteristics include indicating the at least one of two types of equipment at destination.

Examiner respectfully disagrees. Csapo discloses mobile subscriber initiates call by dialing destination number (claimed receiving query signal specifying destination). Csapo does disclose the ability to determine route based on more than one source of information such as information from query signal, based on an identified subscriber service and based on characteristics stored in memory. Using destination number (claimed information from query signal), control unit of base station accesses HLR (claimed characteristics stored in memory) to request identification of called party and if information is found in HLR, the called party is reachable via Internet (claimed identified subscriber service). Csapo discloses the claimed destination is one of at least two destinations, and wherein at least one of two different types of equipment are each

associated with a destination is disclosed by routing of telephone calls with devices coupled to PSTN (Figure 3, element 32) and performing Internet calls with devices coupled to communication network (element 31). See column 3, lines 17-46. Csapo discloses stored characteristics including information indicating the at least one of two types of equipment at destination is disclosed by HLR storing information for when destination is mobile equipment.

Regarding claims 22 and 29, Applicant argues on page 13 of Remarks that Csapo does not disclose processor identifying subscriber service associated with destination and determines a route for transmission of information based on query signal and based on information relating to type of information receivable at equipment at destination wherein the destination being one of at least two types of equipment are each associated with a possible destination.

Examiner respectfully disagrees. Csapo discloses, using destination number from call initiated by mobile station (claimed information from query signal), control unit of base station accesses HLR (claimed characteristics stored in memory) to request identification of called party and if information is found in HLR, the called party is reachable via Internet (claimed identified subscriber service). Csapo discloses the claimed destination is one of at least two destinations, and wherein at least one of two different types of equipment are each associated with a destination is disclosed by routing of telephone calls with devices coupled to PSTN (Figure 3, element 32) and performing Internet calls with devices coupled to communication network (element 31). See column 3, lines 17-46. Csapo discloses stored characteristics including information

Art Unit: 2666

indicating the at least one of two types of equipment at destination is disclosed by HLR storing information for when destination is mobile equipment.

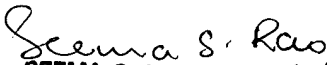
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Jagannathan whose telephone number is 571-272-3163. The examiner can normally be reached on Monday-Friday from 8:00 a.m.-4:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MJ
2/6/2006


SEEMA S. RAO 266106
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600